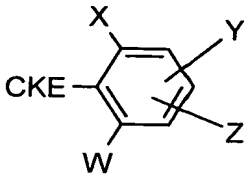
Patent claims

1. Compounds of the formula (I)



(I)

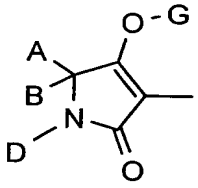
in which

X represents halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, haloalkyl, haloalkoxy, haloalkenyloxy, nitro, cyano or in each case optionally substituted phenyl, phenoxy, phenylthio, phenylalkoxy or phenylalkylthio,

W and Y independently of one another represent hydrogen, halogen, alkyl, alkenyl, alkynyl, alkoxy, alkenyloxy, haloalkyl, haloalkoxy, haloalkenyloxy, nitro or cyano,

Z represents an in each case optionally saturated or unsaturated, optionally substituted heterocycle which is attached to the phenyl ring via a nitrogen atom and which may be interrupted by one or two carbonyl groups,

CKE represents one of the groups



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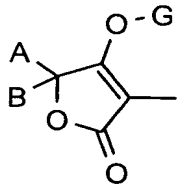

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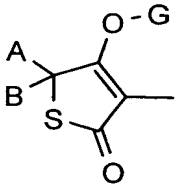

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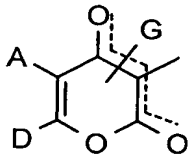

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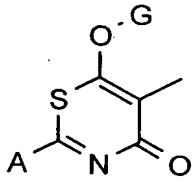

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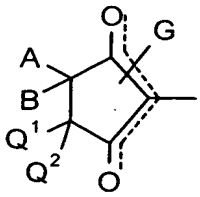

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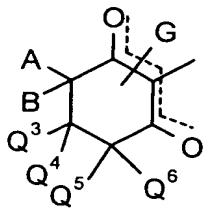
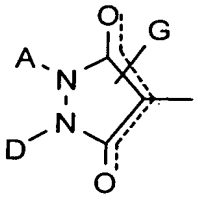


(7) or



(8),

in which

A represents hydrogen, represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, saturated or unsaturated, optionally substituted cycloalkyl in which optionally at least one ring atom is replaced by a heteroatom, or in each case optionally halogen-, alkyl-, haloalkyl-, alkoxy-, haloalkoxy-, cyano- or nitro-substituted aryl, arylalkyl or hetaryl,

B represents hydrogen, alkyl or alkoxyalkyl, or

A and B together with the carbon atom to which they are attached represent a saturated or unsaturated, unsubstituted or substituted cycle which optionally contains at least one heteroatom,

D represents hydrogen or represents an optionally substituted radical from the group consisting of alkyl, alkenyl, alkynyl, alkoxyalkyl, saturated or unsaturated cycloalkyl, in which optionally one or more ring members are replaced by heteroatoms, arylalkyl, aryl, hetarylalkyl or hetaryl or

A and D together with the atoms to which they are attached represent a saturated or unsaturated cycle which optionally contains at least one (in the case of CKE=8 further) heteroatom and which is unsubstituted or substituted in the A,D moiety, or

A and Q^1 together represent optionally halogen- or hydroxy-substituted alkanediyl or alkanediyl or alkenediyl substituted by in each case optionally substituted alkyl, alkoxy, alkylthio, cycloalkyl, benzyloxy or aryl or

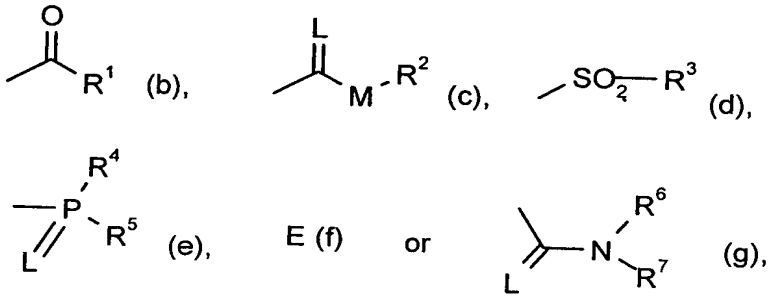
Q^1 represents hydrogen or alkyl,

Q^2, Q^4, Q^5 and Q^6 independently of one another represent hydrogen or alkyl,

Q^3 represents hydrogen, in each case optionally substituted alkyl, alkoxyalkyl, alkylthioalkyl, optionally substituted cycloalkyl (in which optionally one methylene group is replaced by oxygen or sulphur) or optionally substituted phenyl, or

Q^3 and Q^4 together with the carbon atom to which they are attached represent a saturated or unsaturated, unsubstituted or substituted cycle which optionally contains a heteroatom,

G represents hydrogen (a) or represents one of the groups



in which

E represents a metal ion equivalent or an ammonium ion,

L represents oxygen or sulphur,

M represents oxygen or sulphur,

R^1 represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, polyalkoxyalkyl or optionally halogen-, alkyl- or alkoxy-substituted cycloalkyl which may be interrupted by at least one heteroatom, in each case optionally substituted phenyl, phenylalkyl, hetaryl, phenoxyalkyl or hetaryloxyalkyl,

R^2 represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl or represents in each case optionally substituted cycloalkyl, phenyl or benzyl,

R^3, R^4 and R^5 independently of one another represent in each case optionally halogen-substituted alkyl, alkoxy, alkylamino, dialkyl-

amino, alkylthio, alkenylthio, cycloalkylthio and represent in each case optionally substituted phenyl, benzyl, phenoxy or phenylthio,

R^6 and R^7 independently of one another represent hydrogen, in each case optionally halogen-substituted alkyl, cycloalkyl, alkenyl, alkoxy, alkoxyalkyl, represent optionally substituted phenyl, represent optionally substituted benzyl, or together with the N atom to which they are attached represent a cycle which is optionally interrupted by oxygen or sulphur.

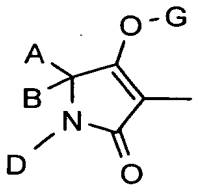
2. Compounds of the formula (I) according to Claim 1 in which

X represents halogen, C_1-C_6-alkyl, C_1-C_6-alkenyl, C_1-C_6-alkynyl, C_1-C_6-haloalkyl, C_1-C_6-alkoxy, C_3-C_6-alkenyloxy, C_1-C_6-alkylthio, C_1-C_6-alkylsulphinyl, C_1-C_6-alkylsulphonyl, C_1-C_6-haloalkoxy, C_3-C_6-haloalkenyloxy, nitro, cyano or represents phenyl, phenoxy, phenylthio, benzyloxy or benzylthio, each of which is optionally mono- or disubstituted by halogen, C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, nitro or cyano,

W and Y independently of one another represent hydrogen, halogen, C_1-C_6-alkyl, C_1-C_6-alkenyl, C_1-C_6-alkynyl, C_1-C_6-haloalkyl, C_1-C_6-alkoxy, C_1-C_6-haloalkoxy, nitro or cyano,

Z represents optionally substituted pyrazolyl, triazolyl, tetrazolyl, pyrrolyl, indolyl, benzimidazolyl, benzpyrazolyl, benztriazolyl, pyrrolidinyl, piperidinyl, piperazidinyl, morpholinyl or thiomorpholinyl which is attached via a nitrogen atom to the phenyl ring,

CKE represents one of the groups



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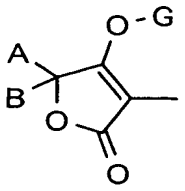

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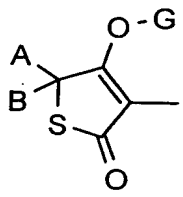
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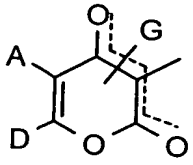
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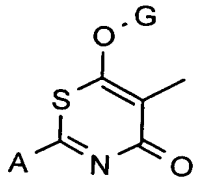
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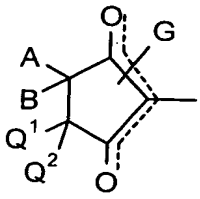
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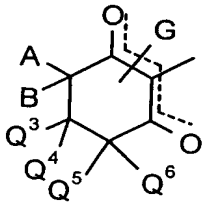
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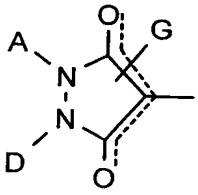

(8),

A represents hydrogen or represents C_1-C_{12}-alkyl, C_3-C_8-alkenyl, C_1-C_{10}-alkoxy-C_1-C_8-alkyl, C_1-C_{10}-alkylthio-C_1-C_6-alkyl, each of which is optionally mono- to pentasubstituted by halogen, represents C_3-C_8-cycloalkyl which is optionally mono- to trisubstituted by halogen, C_1-C_6-alkyl, C_1-C_2-haloalkyl or C_1-C_6-alkoxy and in which optionally one or two not directly adjacent ring members are replaced by oxygen and/or sulphur or represents phenyl, naphthyl, hetaryl having 5 or 6 ring atoms, phenyl-C_1-C_6-alkyl or naphthyl-C_1-C_6-alkyl, each of which is optionally mono- to trisubstituted by halogen, C_1-C_6-alkyl, C_1-C_6-haloalkyl, C_1-C_6-alkoxy, C_1-C_6-haloalkoxy, cyano or nitro,

B represents hydrogen, C_1-C_{12}-alkyl or C_1-C_8-alkoxy-C_1-C_6-alkyl, or

A, B and the carbon atom to which they are attached represent saturated C_3-C_{10}-cycloalkyl or unsaturated C_5-C_{10}-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur and which are optionally mono- or disubstituted by C_1-C_8-alkyl, C_3-C_{10}-cycloalkyl, C_1-C_8-haloalkyl, C_1-C_8-alkoxy, C_1-C_8-alkylthio, halogen or phenyl or

A, B and the carbon atom to which they are attached represent C_3-C_6-cycloalkyl which is substituted by an alkylenediyl group which optionally contains one or two not directly adjacent oxygen and/or sulphur atoms and which is optionally mono- to

tetrasubstituted by C_1-C_4-alkyl or by an alkylenedioxyl or by an alkylenedithioyl group which, together with the carbon atom to which it is attached, forms a further five- to eight-member ring or

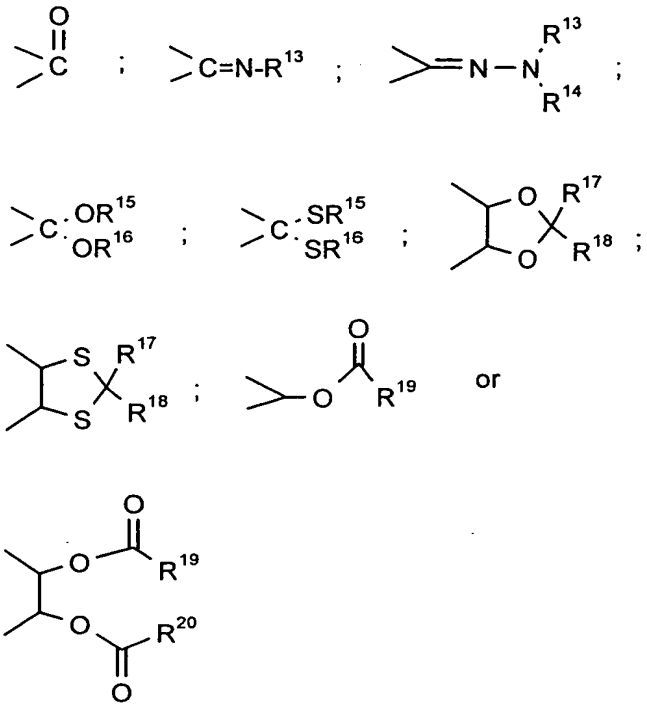
A, B and the carbon atom to which they are attached represent C_3-C_8-cycloalkyl or C_5-C_8-cycloalkenyl in which two substituents together with the carbon atoms to which they are attached represent C_2-C_6-alkanediyl, C_2-C_6-alkenediyl or C_4-C_6-alkanediendiyl, each of which is optionally mono- to disubstituted by C_1-C_6-alkyl, C_1-C_6-alkoxy or halogen and in which optionally one methylene group is replaced by oxygen or sulphur,

D represents hydrogen, represents C_1-C_{12}-alkyl, C_3-C_8-alkenyl, C_3-C_8-alkynyl, C_1-C_{10}-alkoxy-C_1-C_8-alkyl, each of which is optionally mono- to pentasubstituted by halogen, represents C_3-C_8-cycloalkyl which is optionally mono- to trisubstituted by halogen, C_1-C_4-alkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkyl and in which optionally one ring member is replaced by oxygen or sulphur or represents phenyl, hetaryl having 5 or 6 ring atoms, phenyl-C_1-C_6-alkyl or hetaryl-C_1-C_6-alkyl having 5 or 6 ring atoms, each of which radicals is optionally mono- to trisubstituted by halogen, C_1-C_6-alkyl, C_1-C_6-haloalkyl, C_1-C_6-alkoxy, C_1-C_6-haloalkoxy, cyano or nitro, or

A and D together represent in each case optionally mono- or disubstituted C_3-C_6-alkanediyl or C_3-C_6-alkenediyl in which optionally one methylene group is replaced by a carbonyl group, oxygen or sulphur,

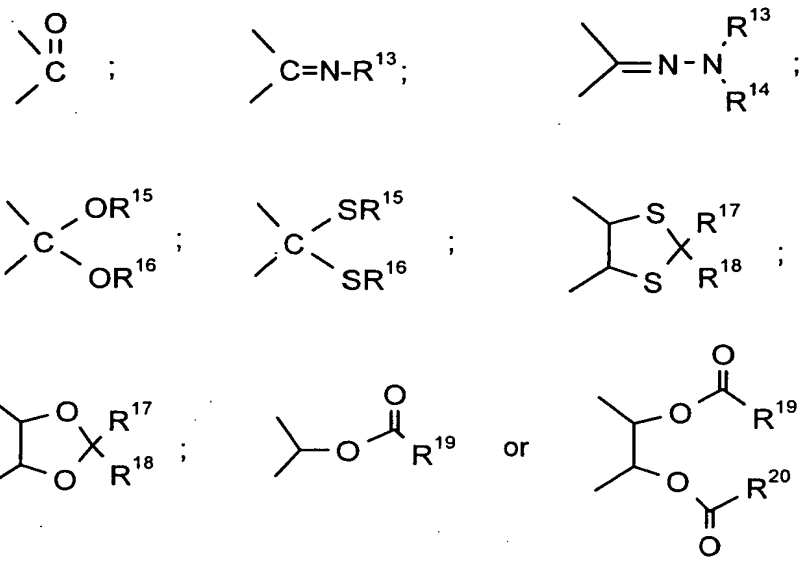
possible substituents being in each case:

halogen, hydroxyl, mercapto or C_1-C_{10}-alkyl, C_1-C_6-alkoxy, C_1-C_6-alkylthio, C_3-C_7-cycloalkyl, phenyl or benzyloxy, each of which is optionally mono- to trisubstituted by halogen, or a further C_3-C_6-alkanediyl grouping, C_3-C_6-alkenediyl grouping or butadienyl grouping which is optionally substituted by C_1-C_6-alkyl or in which optionally two adjacent substituents together with the carbon atoms to which they are attached form a further saturated or unsaturated cycle having 5 or 6 ring atoms (in the case of the compound of the formula (I-1), A and D together with the atoms to which they are attached then represent, for example, the groups mentioned further below (AD-1 to AD-10)) which can contain oxygen or sulphur, or which optionally contains one of the following groups



or

A and Q^1 together represent C_3-C_6-alkanediyl or C_4-C_6-alkenediyl, each of which is optionally mono- or disubstituted by identical or different substituents from the group consisting of halogen, hydroxyl, of C_1-C_{10}-alkyl, C_1-C_6-alkoxy, C_1-C_6-alkylthio, C_3-C_7-cycloalkyl, each of which is optionally mono- to trisubstituted by identical or different halogen, and of benzyloxy and phenyl, each of which is optionally mono- to trisubstituted by identical or different substituents from the group consisting of halogen, C_1-C_6-alkyl and C_1-C_6-alkoxy, which C_3-C_6-alkanediyl or C_4-C_6-alkenediyl moreover optionally contains one of the groups below



or is bridged by a C_1-C_2-alkanediyl group or by an oxygen atom or

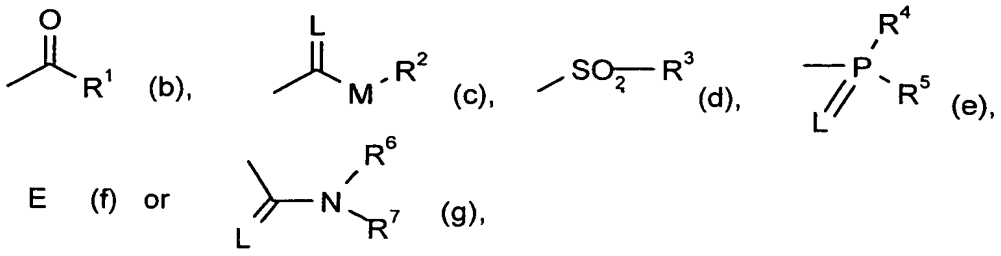
Q^1 represents hydrogen or C_1-C_4-alkyl,

Q^2, Q^4, Q^5 and Q^6 independently of one another represent hydrogen or C_1-C_4-alkyl,

Q^3 represents hydrogen, represents C_1-C_6-alkyl, C_1-C_6-alkoxy-C_1-C_2-alkyl, C_1-C_6-alkylthio-C_1-C_2-alkyl, each of which is optionally mono- to pentasubstituted by halogen, represents C_3-C_8-cycloalkyl which is optionally substituted by C_1-C_4-alkyl or C_1-C_4-alkoxy and in which optionally one methylene group is replaced by oxygen or sulphur or represents phenyl which is optionally mono- or disubstituted by halogen, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_2-haloalkyl, C_1-C_2-haloalkoxy, cyano or nitro, or

Q^3 and Q^4 together with the carbon atom to which they are attached represent a C_3-C_7-ring which is optionally mono- to trisubstituted by C_1-C_4-alkyl, C_1-C_4-alkoxy or C_1-C_2-haloalkyl and in which optionally one ring member is replaced by oxygen or sulphur,

G represents hydrogen (a) or represents one of the groups



(b), (c), (d), (e),

E (f) or (g),

in which

E represents a metal ion equivalent or an ammonium ion,

L represents oxygen or sulphur and

M represents oxygen or sulphur,

R^1 represents C_1-C_{20}-alkyl, C_2-C_{20}-alkenyl, C_1-C_8-alkoxy-C_1-C_8-alkyl, C_1-C_8-alkylthio-C_1-C_8-alkyl, poly-C_1-C_8-alkoxy-C_1-C_8-alkyl, each of which is optionally mono- to pentasubstituted by halogen, or represents C_3-C_8-cycloalkyl which is optionally mono- to trisubstituted by halogen, C_1-C_6-alkyl or C_1-C_6-alkoxy and in which optionally one or more not directly adjacent ring members are replaced by oxygen and/or sulphur,

represents phenyl which is optionally mono- to trisubstituted by halogen, cyano, nitro, C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_6-haloalkyl, C_1-C_6-haloalkoxy, C_1-C_6-alkylthio or C_1-C_6-alkylsulphonyl,

represents phenyl-C_1-C_6-alkyl which is optionally mono- to trisubstituted by halogen, nitro, cyano, C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_6-haloalkyl or C_1-C_6-haloalkoxy,

represents 5- or 6-membered hetaryl which is optionally mono- or disubstituted by halogen or C_1-C_6-alkyl,

represents phenoxy C_1-C_6-alkyl which is optionally mono- or disubstituted by halogen or C_1-C_6-alkyl or

represents 5- or 6-membered hetaryloxy C_1-C_6-alkyl which is optionally mono- or disubstituted by halogen, amino or C_1-C_6-alkyl,

R^2 represents C_1-C_{20}-alkyl, C_2-C_{20}-alkenyl, C_1-C_8-alkoxy-C_2-C_8-alkyl, poly-C_1-C_8-alkoxy-C_2-C_8-alkyl, each of which is optionally mono- to pentasubstituted by halogen,

represents C_3-C_8-cycloalkyl which is optionally mono- or disubstituted by halogen, C_1-C_6-alkyl or C_1-C_6-alkoxy or

represents phenyl or benzyl, each of which is optionally mono- to trisubstituted by halogen, cyano, nitro, C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_6-haloalkyl or C_1-C_6-haloalkoxy,

R^3 represents C_1-C_8-alkyl which is optionally mono- to nonasubstituted by halogen or represents phenyl or benzyl, each of which is optionally mono- to trisubstituted by halogen, C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, cyano or nitro,

R^4 and R^5 independently of one another represent C_1-C_8-alkyl, C_1-C_8-alkoxy, C_1-C_8-alkylamino, di-(C_1-C_8-alkyl)amino, C_1-C_8-alkylthio, C_2-C_8-alkenylthio, C_3-C_7-cycloalkylthio, each of which is optionally mono- to pentasubstituted by halogen, or represent phenyl, phenoxy or phenylthio, each of which is optionally mono- to trisubstituted by halogen, nitro, cyano, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy, C_1-C_4-alkylthio, C_1-C_4-haloalkylthio, C_1-C_4-alkyl or C_1-C_4-haloalkyl,

R^6 and R^7 independently of one another represent hydrogen, represent C_1-C_8-alkyl, C_3-C_8-cycloalkyl, C_1-C_8-alkoxy, C_3-C_8-alkenyl, C_1-C_8-alkoxy-C_1-C_8-alkyl, each of which is optionally mono- to pentasubstituted by halogen, represent phenyl which is optionally mono- to trisubstituted by halogen, C_1-C_8-haloalkyl, C_1-C_8-alkyl or C_1-C_8-alkoxy, represent benzyl which is optionally mono- to trisubstituted by halogen, C_1-C_8-alkyl, C_1-C_8-haloalkyl or C_1-C_8-alkoxy or together represent a C_3-C_6-alkylene radical which is optionally mono- or disubstituted by C_1-C_4-alkyl and in which optionally one carbon atom is replaced by oxygen or sulphur,

R^{13} represents hydrogen, represents C_1-C_8-alkyl or C_1-C_8-alkoxy, each of which is optionally mono- to trisubstituted by halogen, represents C_3-C_8-cycloalkyl which is optionally mono- to trisubstituted by halogen, C_1-C_4-alkyl or C_1-C_4-alkoxy and in which optionally one methylene group is replaced by oxygen or sulphur, or represents phenyl, phenyl-C_1-C_4-alkyl or phenyl-C_1-C_4-alkoxy, each of which is

optionally mono- or disubstituted by halogen, C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, nitro or cyano,

R^{14} represents hydrogen or C_1-C_8-alkyl or

R^{13} and R^{14} together represent C_4-C_6-alkanediyl,

R^{15} and R^{16} are identical or different and represent C_1-C_6-alkyl or

R^{15} and R^{16} together represent a C_2-C_4-alkanediyl radical which is optionally mono- or disubstituted by C_1-C_6-alkyl, C_1-C_6-haloalkyl or by phenyl which is optionally mono- or disubstituted by halogen, C_1-C_6-alkyl, C_1-C_4-haloalkyl, C_1-C_6-alkoxy, C_1-C_4-haloalkoxy, nitro or cyano,

R^{17} and R^{18} independently of one another represent hydrogen, represent optionally halogen-substituted C_1-C_8-alkyl or represent phenyl which is optionally mono- or disubstituted by halogen, C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, nitro or cyano or

R^{17} and R^{18} together with the carbon atom to which they are attached represent a carbonyl group or represent C_5-C_7-cycloalkyl which is optionally mono- or disubstituted by halogen, C_1-C_4-alkyl or C_1-C_4-alkoxy and in which optionally one methylene group is replaced by oxygen or sulphur,

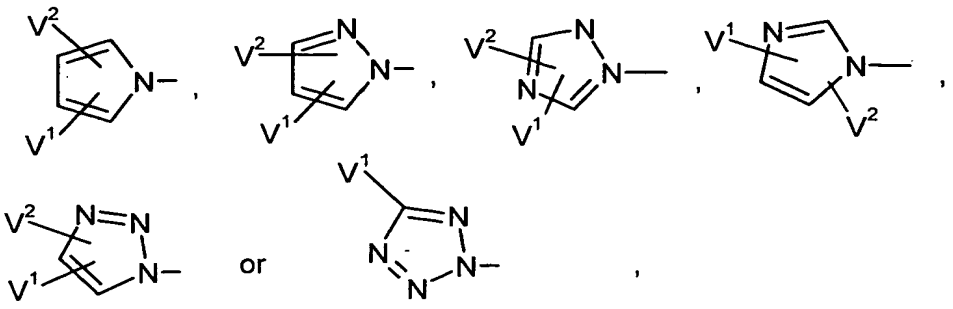
R^{19} and R^{20} independently of one another represent C_1-C_{10}-alkyl, C_2-C_{10}-alkenyl, C_1-C_{10}-alkoxy, C_1-C_{10}-alkylamino, C_3-C_{10}-alkenylamino, di-(C_1-C_{10}-alkyl)amino or di-(C_3-C_{10}-alkenyl)amino.

3. Compounds of the formula (I) according to Claim 1 in which

X represents fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, nitro or cyano,

W and Y independently of one another represent hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkoxy,

Z represents one of the radicals

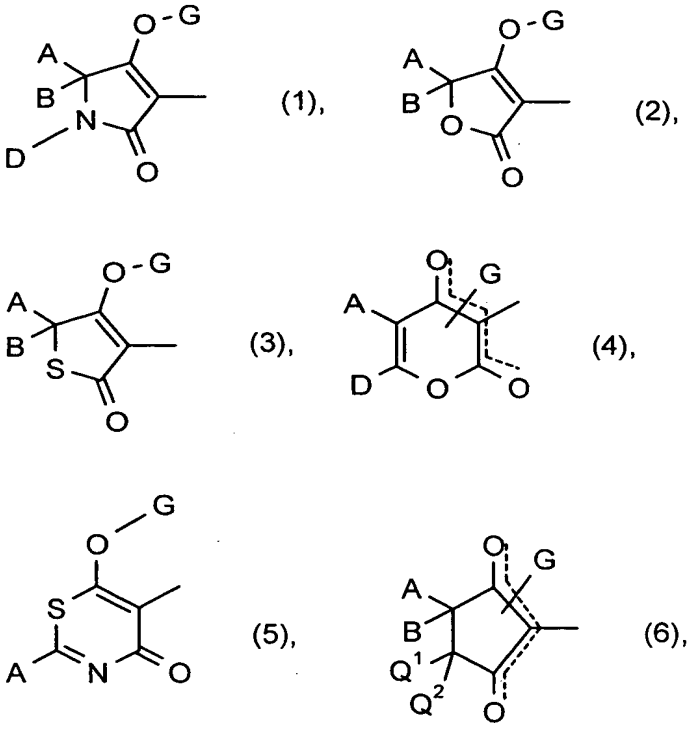


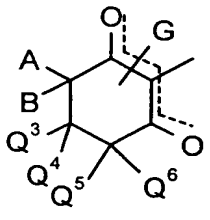
V^1 represents hydrogen, fluorine, chlorine, bromine, iodine, C_1-C_6-alkyl, C_1-C_4-alkoxy, C_1-C_4-haloalkyl, C_1-C_4-haloalkoxy, cyano or nitro,

V^2 represents hydrogen, fluorine, chlorine, bromine, C_1-C_4-alkyl or C_1-C_2-haloalkyl,

V^1 and V^2 together represent C_3-C_4-alkanediyl which is optionally mono- to tetrasubstituted by fluorine and which may optionally be interrupted once or twice by oxygen or represent butadienyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_2-haloalkyl, C_1-C_2-haloalkoxy, cyano or nitro,

CKE represents one of the groups





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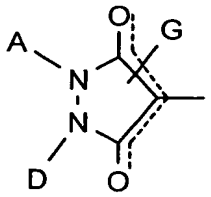


(8),

A represents hydrogen, represents C_1-C_6-alkyl, C_1-C_4-alkoxy-C_1-C_2-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, represents C_3-C_6-cycloalkyl which is optionally mono- or disubstituted by fluorine, chlorine, C_1-C_2-alkyl, trifluoromethyl or C_1-C_2-alkoxy or (but not in the case of the compounds of the formulae (I-3), (I-4), (I-6) and (I-7)) represents phenyl or benzyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_2-haloalkyl, C_1-C_4-alkoxy, C_1-C_2-haloalkoxy, cyano or nitro,

B represents hydrogen, C_1-C_4-alkyl or C_1-C_2-alkoxyl-C_1-C_2-alkyl or

A, B and the carbon atom to which they are attached represent saturated C_3-C_7-cycloalkyl or unsaturated C_5-C_7-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur and which is optionally mono- or disubstituted by C_1-C_6-alkyl, trifluoromethyl or C_1-C_6-alkoxy, with the proviso that in this case Q^3 represents hydrogen or methyl, or

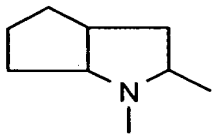
A, B and the carbon atom to which they are attached represent C_5-C_6-cycloalkyl which is substituted by an alkylenediyl group which optionally contains one or two not directly adjacent oxygen or sulphur atoms and which is optionally mono- or disubstituted by methyl or ethyl, or by an alkylenedioxyl or by an alkylenedithiol group which, together with the carbon atom to which it is attached, forms a further five- or six-membered ring, with the proviso that in this case Q^3 represents hydrogen or methyl,

A, B and the carbon atom to which they are attached represent C_3-C_6-cycloalkyl or C_5-C_6-cycloalkenyl in which two substituents together with the carbon atoms to which they are attached represent C_2-C_4-alkanediyl, C_2-C_4-alkenediyl or butadienediyl, each of which is optionally substituted by C_1-C_2-alkyl or C_1-C_2-alkoxy, with the proviso that in this case Q^3 represents hydrogen or methyl,

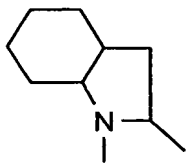
D represents hydrogen, represents C_1-C_6-alkyl, C_3-C_6-alkenyl, C_1-C_4-alkoxy-C_2-C_3-alkyl, each of which is optionally mono- to trisubstituted by fluorine, represents C_3-C_6-cycloalkyl which is optionally mono- or disubstituted by C_1-C_4-alkyl, C_1-C_4-alkoxy or C_1-C_2-haloalkyl and in which optionally one methylene group is replaced by oxygen or (but not in the case of the compounds of the formula (I-1)) represents phenyl or pyridyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy, or

A and D together represent C_3-C_5-alkanediyl which is optionally mono- or disubstituted and in which one methylene group may be replaced by a carbonyl group, oxygen or sulphur, possible substituents being C_1-C_2-alkyl or C_1-C_2-alkoxy, or

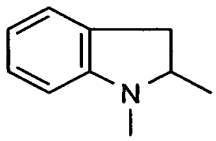
A and D (in the case of the compounds of the formula (I-1)) together with the atoms to which they are attached represent one of the groups AD-1 to AD-10:



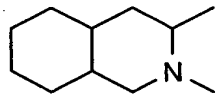
AD-1



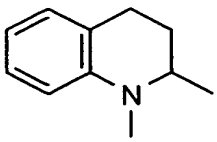
AD-2



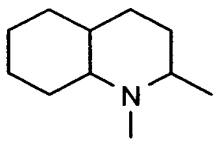
AD-3



AD-4



AD-5



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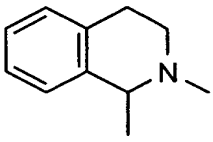
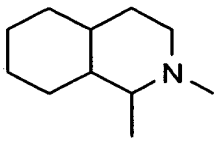
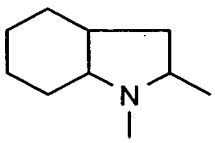


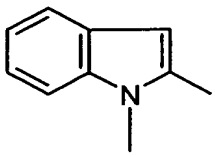
AD-7



AD-8



AD-9



AD-10

or

A and Q^1 together represent C_3-C_4-alkanediyl or C_4-alkenediyl, each of which is optionally mono- or disubstituted by identical or different substituents from the group consisting of fluorine, chlorine, hydroxyl and C_1-C_8-alkyl and C_1-C_4-alkoxy, each of which is optionally mono- to trisubstituted by fluorine, or

Q^1 represents hydrogen,

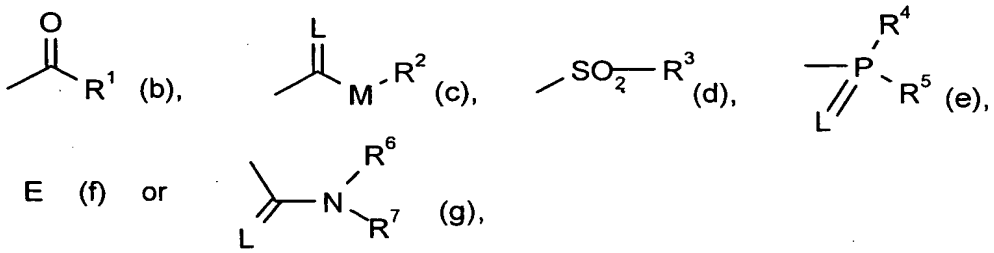
Q^2 represents hydrogen,

Q^4, Q^5 and Q^6 independently of one another represent hydrogen or C_1-C_3-alkyl,

Q^3 represents hydrogen, C_1-C_4-alkyl, trifluoromethyl or represents C_3-C_6-cycloalkyl which is optionally mono- or disubstituted by methyl or methoxy, or

Q^3 and Q^4 together with the carbon to which they are attached represent a saturated C_5-C_6-ring which is optionally mono- or disubstituted by C_1-C_2-alkyl or C_1-C_2-alkoxy and in which optionally one ring member is replaced by oxygen or sulphur, with the proviso that in this case A represents hydrogen or methyl, or

G represents hydrogen (a) or represents one of the groups



in which

E represents a metal ion equivalent or an ammonium ion,

L represents oxygen or sulphur and

M represents oxygen or sulphur,

R^1 represents C_1-C_8-alkyl, C_2-C_8-alkenyl, C_1-C_4-alkoxy-C_1-C_2-alkyl, C_1-C_4-alkylthio-C_1-C_2-alkyl, each of which is optionally mono- to trisubstituted by fluorine or chlorine, or represents C_3-C_6-cycloalkyl which is optionally mono- or disubstituted by fluorine, chlorine, C_1-C_2-alkyl or C_1-C_2-alkoxy and in which optionally one or two not directly adjacent ring members are replaced by oxygen,

represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, cyano, nitro, C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_2-haloalkyl or C_1-C_2-haloalkoxy,

R^2 represents C_1-C_8-alkyl, C_2-C_8-alkenyl or C_1-C_4-alkoxy-C_2-C_4-alkyl, each of which is optionally mono- to trisubstituted by fluorine,

represents C_3-C_6-cycloalkyl which is optionally monosubstituted by C_1-C_2-alkyl or C_1-C_2-alkoxy or

represents phenyl or benzyl, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, cyano, nitro, C_1-C_4-alkyl, C_1-C_3-alkoxy, trifluoromethyl or trifluoromethoxy,

R^3 represents C_1-C_6-alkyl which is optionally mono- to trisubstituted by fluorine or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, bromine, C_1-C_4-alkyl, C_1-C_4-alkoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,

R^4 represents C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_6-alkylamino, di-(C_1-C_6-alkyl)amino, C_1-C_6-alkylthio, C_3-C_4-alkenylthio, C_3-C_6-cycloalkylthio, each of which is optionally mono- to trisubstituted by fluorine, or represents phenyl, phenoxy or phenylthio, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, nitro, cyano, C_1-C_3-alkoxy, C_1-C_3-haloalkoxy, C_1-C_3-alkylthio, C_1-C_3-haloalkylthio, C_1-C_3-alkyl or trifluoromethyl,

R^5 represents C_1-C_6-alkoxy or C_1-C_6-alkylthio,

R^6 represents hydrogen, represents C_1-C_6-alkyl, C_3-C_6-cycloalkyl, C_1-C_6-alkoxy, C_3-C_6-alkenyl, C_1-C_6-alkoxy-C_1-C_4-alkyl, each of which is optionally mono- to trisubstituted by fluorine, represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, trifluoromethyl, C_1-C_4-alkyl or C_1-C_4-alkoxy, represents benzyl which is optionally monosubstituted by fluorine, chlorine, bromine, C_1-C_4-alkyl, trifluoromethyl or C_1-C_4-alkoxy,

R^7 represents C_1-C_6-alkyl, C_3-C_6-alkenyl or C_1-C_6-alkoxy-C_1-C_4-alkyl,

R^6 and R^7 together represent a C_4-C_5-alkylene radical which is optionally mono- or disubstituted by methyl or ethyl and in which optionally a methylene group is replaced by oxygen or sulphur.

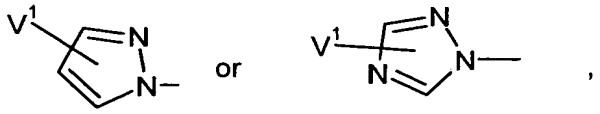
4. Compounds of the formula (I) according to Claim 1 in which

W represents hydrogen, methyl, ethyl or chlorine,

X represents chlorine, methyl, ethyl, propyl, methoxy, ethoxy, propoxy, trifluoromethyl, difluoromethoxy or trifluoromethoxy,

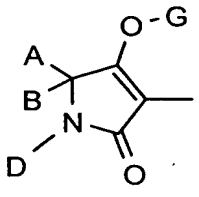
Y represents hydrogen or methyl,

Z represents one of the radicals

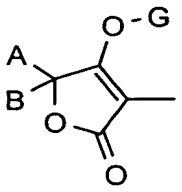


V^1 represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, methoxy, ethoxy, trifluoromethyl or cyano,

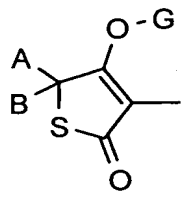
CKE represents one of the groups



(1),



(2),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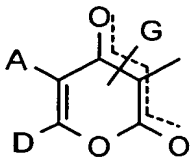
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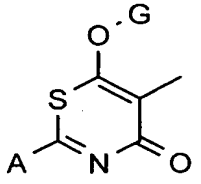
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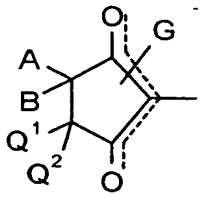
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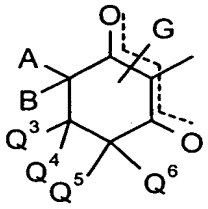
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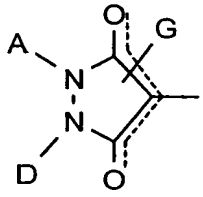

(8),

A represents hydrogen, represents C_1-C_4-alkyl or C_1-C_2-alkoxy-C_1-C_2-alkyl, each of which is optionally mono- to trisubstituted by fluorine, represents cyclopropyl, cyclopentyl or cyclohexyl and, only in the case of the compounds of the formula (I-5), represents phenyl which is optionally mono- or disubstituted by fluorine, chlorine, bromine, methyl, ethyl, n-propyl, isopropyl, methoxy, ethoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,

B represents hydrogen, methyl or ethyl or

A, B and the carbon atom to which they are attached represent saturated C_5-C_6-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur and which is optionally monosubstituted by methyl, ethyl, propyl, isopropyl, trifluoromethyl, methoxy, ethoxy, propoxy, butoxy or isobutoxy, with the proviso that in this case Q^3 represents hydrogen, or

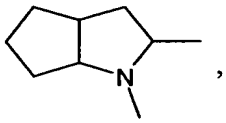
A, B and the carbon atom to which they are attached represent C_6-cycloalkyl which is substituted by an alkylenedioxyl group containing two not directly adjacent oxygen atoms, with the proviso that in this case Q^3 represents hydrogen, or

A, B and the carbon atom to which they are attached represent C_5-C_6-cycloalkyl or C_5-C_6-cycloalkenyl in which two substituents together with the carbon atoms to which they are attached represent C_2-C_4-alkanediyl or C_2-C_4-alkenediyl or butadienediyl, with the proviso that in this case Q^3 represents hydrogen,

D represents hydrogen, represents C_1-C_4-alkyl, C_3-C_4-alkenyl, C_1-C_4-alkoxy-C_1-C_3-alkyl, each of which is optionally mono- to trisubstituted by fluorine, represents cyclopropyl, cyclopentyl or cyclohexyl or (but not in the case of the compounds of the formula (I-1)) represents pyridyl or phenyl which is optionally monosubstituted by fluorine, chlorine, methyl, ethyl, n-propyl, isopropyl, methoxy, ethoxy or trifluoromethyl,

or

A and D together represent C_3-C_5-alkanediyl which is optionally mono- or disubstituted by methyl or methoxy and in which optionally one carbon atom is replaced by oxygen or sulphur or represent the group AD-1



,

A and Q^1 together represent C_3-C_4-alkanediyl which is optionally mono- or disubstituted by methyl or methoxy, or

Q^1 represents hydrogen,

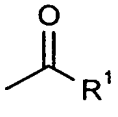
Q^2 represents hydrogen,

Q^4, Q^5 and Q^6 independently of one another represent hydrogen or methyl,

Q^3 represents hydrogen, methyl, ethyl, propyl or isopropyl, or

Q^3 and Q^4 together with the carbon to which they are attached represent a saturated C_5-C_6-ring which is optionally monosubstituted by methyl or methoxy, with the proviso that in this case A represents hydrogen,

G represents hydrogen (a) or represents one of the groups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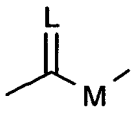
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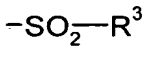
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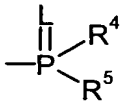
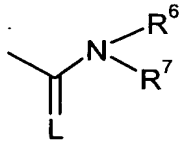

(e),

E (f) or


(g),

in which

E represents a metal ion equivalent or an ammonium ion,

L represents oxygen or sulphur and

M represents oxygen or sulphur,

R^1 represents C_1-C_6-alkyl, C_2-C_6-alkenyl, C_1-C_2-alkoxy-C_1-alkyl, C_1-C_2-alkylthio-C_1-alkyl, each of which is optionally mono- to trisubstituted by fluorine, or represents cyclopropyl or cyclohexyl, each of which is optionally monosubstituted by fluorine, chlorine, methyl or methoxy,

represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, cyano, nitro, methyl, methoxy, trifluoromethyl or trifluoromethoxy,

R^2 represents C_1-C_8-alkyl, C_2-C_6-alkenyl or C_1-C_4-alkoxy-C_2-C_3-alkyl, each of which is optionally monosubstituted by fluorine,

or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, cyano, nitro, methyl, ethyl, n-propyl, i-propyl, methoxy, ethoxy, trifluoromethyl or trifluoromethoxy,

R^3 represents methyl, ethyl, n-propyl, isopropyl, each of which is optionally mono- to trisubstituted by fluorine, or represents phenyl or benzyl, each of which is optionally monosubstituted by fluorine, chlorine, bromine, methyl, tert-butyl, methoxy, trifluoromethyl, trifluoromethoxy, cyano or nitro,

R^4 represents C_1-C_4-alkyl, C_1-C_4-alkoxy, C_1-C_4-alkylamino, di-(C_1-C_4-alkyl)amino, C_1-C_4-alkylthio, each of which is optionally mono- to trisubstituted by fluorine, or represents phenyl, phenoxy or phenylthio, each of which is optionally monosubstituted by fluorine, chlorine, bromine, nitro, cyano, C_1-C_2-alkoxy, C_1-C_2-fluoroalkoxy, C_1-C_2-alkylthio, C_1-C_2-fluoroalkylthio or C_1-C_3-alkyl,

R^5 represents methoxy, ethoxy, propoxy, butoxy, methylthio, ethylthio, propylthio or butylthio,

R^6 represents hydrogen, represents C_1-C_4-alkyl, C_3-C_6-cycloalkyl, C_1-C_4-alkoxy, C_3-C_4-alkenyl, C_1-C_4-alkoxy-C_1-C_4-alkyl, each of which is optionally mono- to trisubstituted by fluorine, represents phenyl which is optionally monosubstituted by fluorine, chlorine, bromine, trifluoromethyl, methyl or methoxy, represents benzyl which is optionally monosubstituted by fluorine, chlorine, bromine, methyl, trifluoromethyl or methoxy,

R^7 represents methyl, ethyl, propyl, isopropyl, butyl, isobutyl or allyl,

R^6 and R^7 represent a C_4-C_5-alkylene radical in which optionally one methylene group is replaced by oxygen or sulphur.

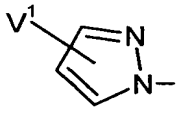
5. Compounds of the formula (I) according to Claim 1 in which

W represents hydrogen, methyl or ethyl,

X represents chlorine, methyl or ethyl,

Y represents hydrogen,

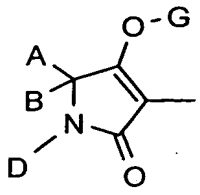
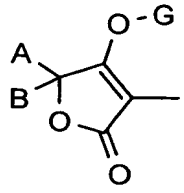
Z represents, in the 4- or 5-position, the radical

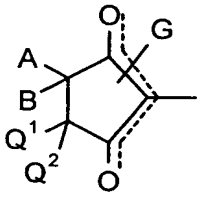
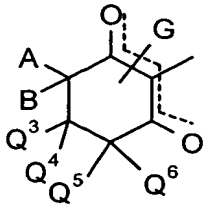
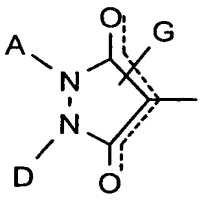


,

V^1 represents chlorine or methoxy,

CKE represents one of the groups


(1),

(2),


(6),

(7),

(8),

A represents hydrogen, C_1-C_4-alkyl or cyclopropyl,

B represents hydrogen or methyl, or

A, B and the carbon atom to which they are attached represent saturated C_5-C_6-cycloalkyl in which optionally one ring member is replaced by oxygen and which is optionally monosubstituted by methyl or methoxy, with the proviso that in this case Q^3 represents hydrogen,

D represents hydrogen,

or

A and D together represent C_3-C_5-alkanediyl in which optionally one carbon atom is replaced by oxygen,

Q^1 represents hydrogen,

Q^2 represents hydrogen,

Q^3 represents methyl,

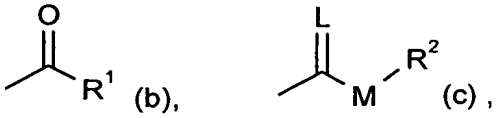
Q^4 represents methyl, or

Q^3 and Q^4 together with the carbon to which they are attached represent a saturated C_5-C_6-ring, with the proviso that in this case A represents hydrogen,

Q^5 represents hydrogen,

Q^6 represents hydrogen,

G represents hydrogen (a) or represents one of the groups



in which

L represents oxygen and

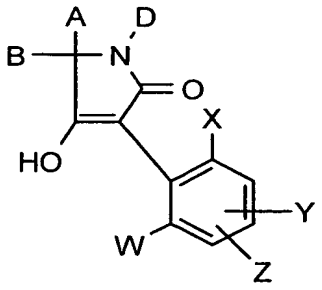
M represents oxygen or sulphur,

R^1 represents C_1-C_6-alkyl or C_1-C_2-alkoxy-C_1-alkyl,

R^2 represents C_1-C_8-alkyl or benzyl.

6. Process for preparing compounds of the formula (I) according to Claim 1, characterized in that, to obtain

(A) compounds of the formula (I-1-a)

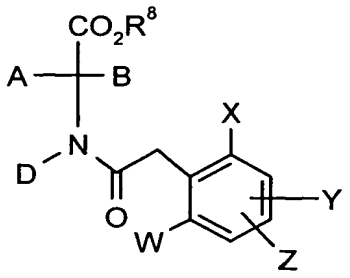


(I-1-a)

in which

A, B, D, W, X, Y and Z are as defined above,

compounds of the formula (II)



(II)

in which

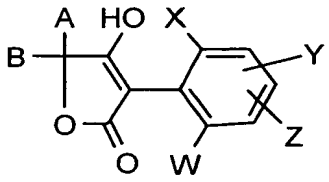
A, B, D, W, X, Y and Z are as defined above,

and

R^8 represents alkyl,

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

(B) compounds of the formula (I-2-a)

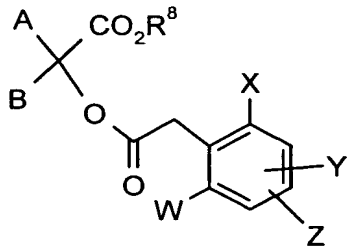


(I-2-a)

in which

A, B, W, X, Y and Z are as defined above,

compounds of the formula (III)



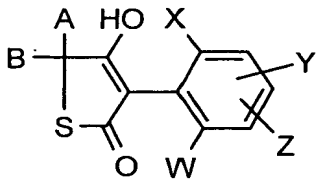
(III)

in which

A, B, W, X, Y, Z and R^8 are as defined above,

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

(C) compounds of the formula (I-3-a)

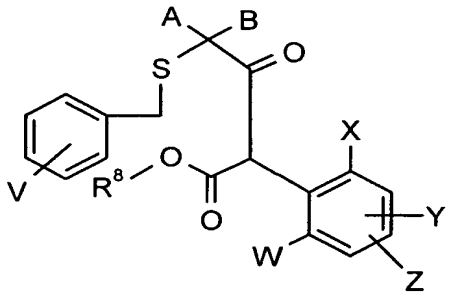


(I-3-a)

in which

A, B, W, X, Y and Z are as defined above,

compounds of the formula (IV)



(IV)

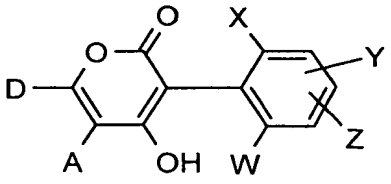
in which

A, B, W, X, Y, Z and R^8 are as defined above and

V represents hydrogen, halogen or alkoxy,

are cyclized intramolecularly, if appropriate in the presence of a diluent and in the presence of an acid,

(D) compounds of the formula (I-4-a)

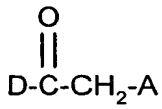


(I-4-a)

in which

A, D, W, X, Y and Z are as defined above,

compounds of the formula (V)

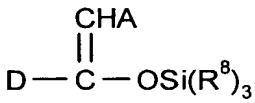


(V)

in which

A and D are as defined above

or silyl enole ethers thereof of the formula (Va)

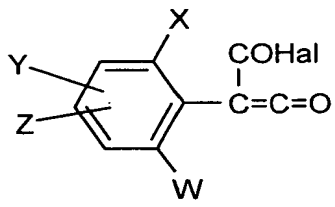


(Va)

in which

A, D and R^8 are as defined above

are reacted with compounds of the formula (VI)



(VI)

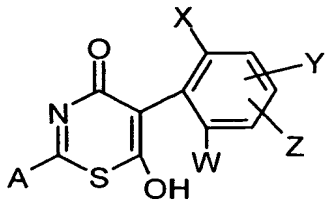
in which

W, X, Y and Z are as defined above and

Hal represents halogen,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid acceptor,

(E) compounds of the formula (I-5-a)

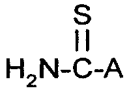


(I-5-a)

in which

A, W, X, Y and Z are as defined above,

compounds of the formula (VII)

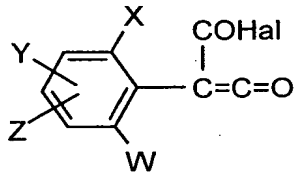


(VII)

in which

A is as defined above

are reacted with compounds of the formula (VI)



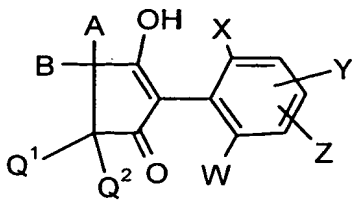
(VI)

in which

Hal, W, X, Y and Z are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid acceptor,

(F) compounds of the formula (I-6-a)

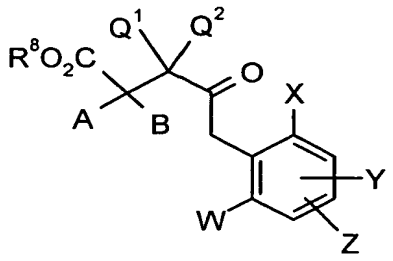


(I-6-a)

in which

A, B, Q^1, Q^2, W, X, Y and Z are as defined above,

compounds of the formula (VIII)



(VIII)

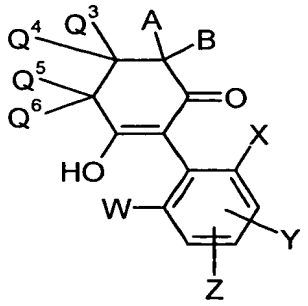
in which

A, B, Q^1, Q^2, W, X, Y and Z are as defined above, and

R^8 represents alkyl,

are cyclized intramolecularly, if appropriate in the presence of a diluent and in the presence of a base,

(G) compounds of the formula (I-7-a)

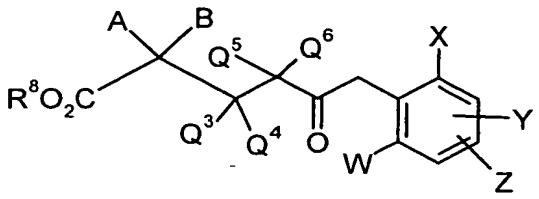


(I-7-a)

in which

A, B, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above,

compounds of the formula (IX)



(IX)

in which

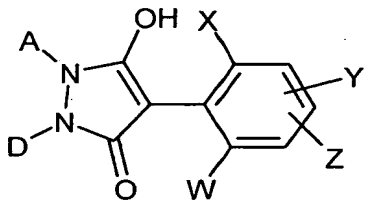
A, B, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above

and

R^8 represents alkyl

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

(H) compounds of the formula (I-8-a)

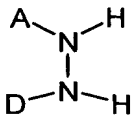


(I-8-a)

in which

A, D, W, X, Y and Z are as defined above,

compounds of the formula (X)

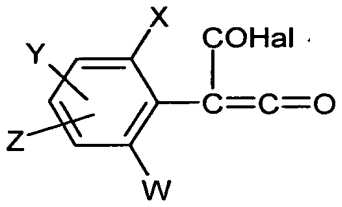


(X)

in which

A and D are as defined above

α) are reacted with compounds of the formula (VI)



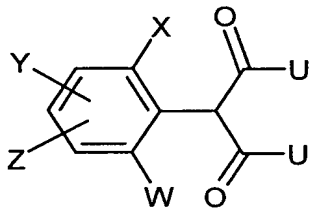
(VI)

in which

Hal, W, X, Y and Z are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid acceptor, or

ß) are reacted with compounds of the formula (XI)



(XI)

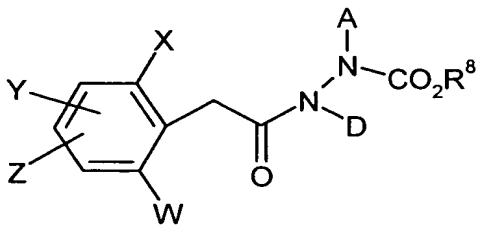
in which

W, X, Y and Z are as defined above

and U represents NH_2 or O-R^8,

if appropriate in the presence of a diluent and if appropriate in the presence of a base, or

γ) are reacted with compounds of the formula (XII)



(XII)

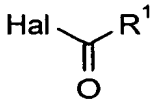
in which

A, D, W, X, Y, Z and R^8 are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of a base,

(I) compounds of the formulae (I-1-b) to (I-8-b) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, R^1, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-8-a) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above are in each case

(α) reacted with acid halides of the formula (XIII)



(XIII)

in which

R^1 is as defined above and

Hal represents halogen,

or

(ß) reacted with carboxylic anhydrides of the formula (XIV)

$$R^1\text{-CO-O-CO-}R^1 \qquad \text{(XIV)}$$

in which

R^1 is as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

(J) compounds of the formulae (I-1-c) to (I-8-c) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, R^2, M, W, X, Y and Z are as defined above and L represents oxygen, compounds of the formulae (I-1-a) to (I-8-a) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above are in each case

reacted with chloroformic esters or chloroformic thioesters of the formula (XV)

R^2-M-CO-Cl (XV)

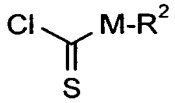
in which

R^2 and M are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

(K) compounds of the formulae (I-1-c) to (I-8-c) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, R^2, M, W, X, Y and Z are as defined above and L represents sulphur, compounds of the formulae (I-1-a) to (I-8-a) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above are in each case

reacted with chloromonothioformic esters or chlorodithioformic esters of the formula (XVI)



(XVI)

in which

M and R^2 are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

and

(L) compounds of the formulae (I-1-d) to (I-8-d) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, R^3, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-8-a) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above are in each case

reacted with sulphonyl chlorides of the formula (XVII)

R^3-SO_2-Cl (XVII)

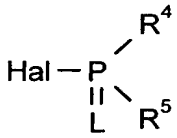
in which

R^3 is as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

(M) compounds of the formulae (I-1-e) to (I-8-e) shown above in which A, B, D, L, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, R^4, R^5, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-8-a) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above are in each case

reacted with phosphorus compounds of the formula (XVIII)



(XVIII)

in which

L, R^4 and R^5 are as defined above and

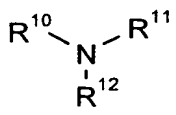
Hal represents halogen,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

(N) compounds of the formulae (I-1-f) to (I-8-f) shown above in which A, B, D, E, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-8-a) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above are in each case

reacted with metal compounds or amines of the formulae (XIX) and (XX), respectively,

$Me(OR^{10})_t$ (XIX)



(XX)

in which

Me represents a mono- or divalent metal,

t represents the number 1 or 2 and

R^{10}, R^{11}, R^{12} independently of one another represent hydrogen or alkyl,

if appropriate in the presence of a diluent,

(O) compounds of the formulae (I-1-g) to (I-8-g) shown above in which A, B, D, L, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, R^6, R^7, W, X, Y and Z are as defined above, compounds of the formulae (I-1-a) to (I-8-a) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above are in each case

(α) reacted with isocyanates or isothiocyanates of the formula (XXI)

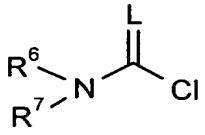
$$R^6\text{-}N{=}C{=}L \qquad \text{(XXI)}$$

in which

R^6 and L are as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of a catalyst, or

(ß) reacted with carbamoyl chlorides or thiocarbamoyl chlorides of the formula (XXII)



(XXII)

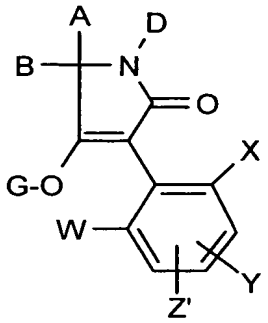
in which

L, R^6 and R^7 are as defined above,

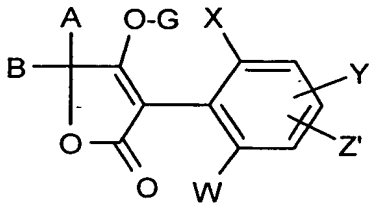
if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder,

(P) compounds of the formulae (I-1) to (I-8) shown above in which A, B, D, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above, compounds of the formulae (I-1') to (I-8')

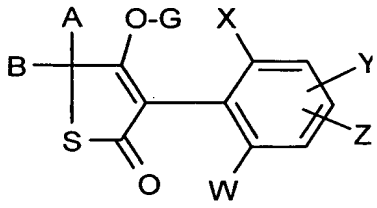
(I-1'):



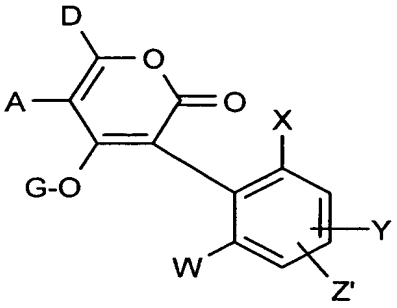
(I-2'):



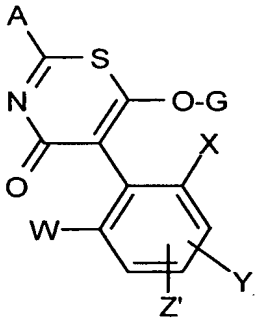
(I-3'):



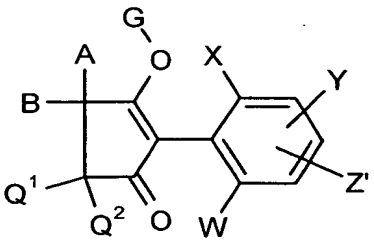
(I-4'):



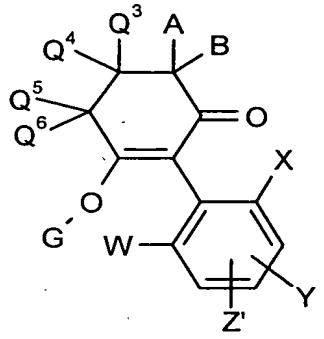
(I-5'):



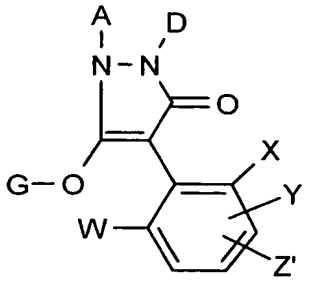
(I-6'):



(I-7'):



(I-8'):



in which

A, B, D, G, Q^1, Q^2, Q^3, Q^4, Q^5, Q^6, W, X and Y are as defined above and

Z' represents chlorine, bromine, iodine,

are reacted with NH heterocycles of the formula (XXIII)

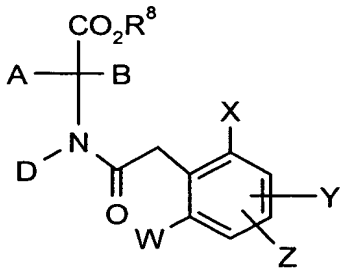
H - Z (XXIII)

in which

Z is as defined above,

in the presence of a solvent, a base and a catalyst, suitable catalysts being, in particular, copper(I) salts.

7. Compounds of the formula (II)

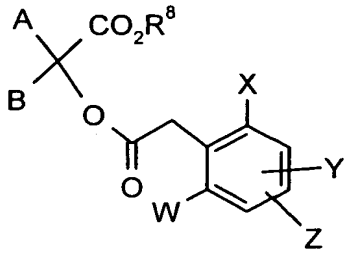


(II)

in which

A, B, D, W, X, Y , Z and R^8 are as defined above.

8. Compounds of the formula (III)

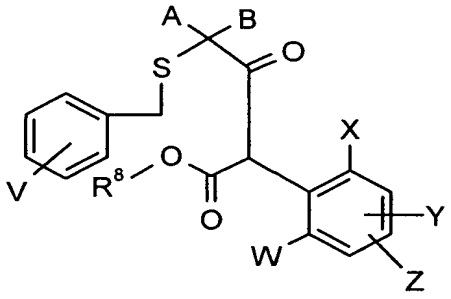


(III)

in which

A, B, W, X , Y, Z and R^8 are as defined above.

9. Compounds of the formula (IV)

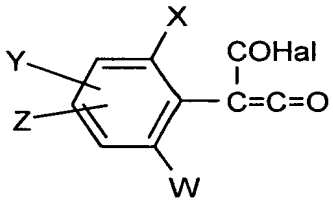


(IV)

in which

A, B, W, X, Y, Z, V and R^8 are as defined above.

10. Compounds of the formula (VI)

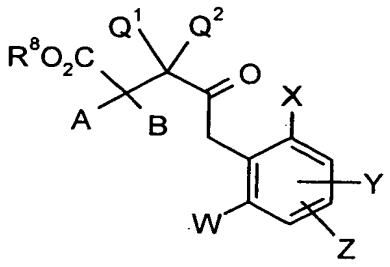


(VI)

in which

W, X, Y, Z and Hal are as defined above.

11. Compounds of the formula (VIII)

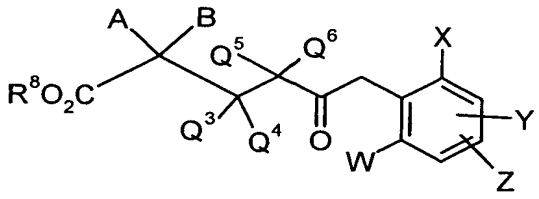


(VIII)

in which

A, B, Q^1, Q^2, W, X, Y, Z and R^8 are as defined above.

12. Compounds of the formula (IX)

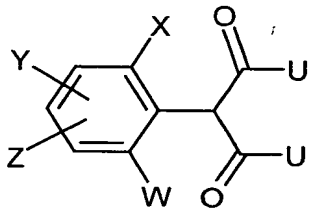


(IX)

in which

A, B, R^8 ,Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above.

13. Compounds of the formula (XI)

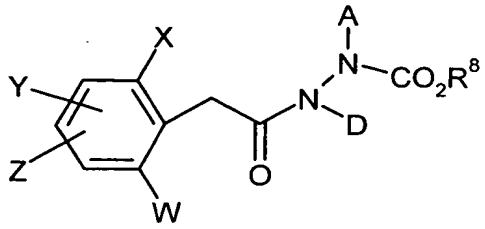


(XI)

in which

U, W, X, Y and Z are as defined above.

14. Compounds of the formula (XII)

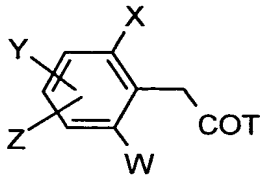


(XII)

in which

A, D, W, X, Y, Z and R^8 are as defined above.

15. Compounds of the formula (XXV)

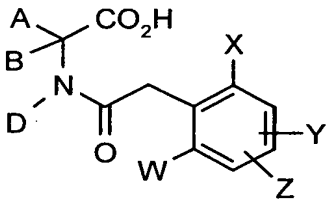


(XXV)

in which

T, W, X, Y and Z are as defined above.

16. Compounds of the formula (XXVI)

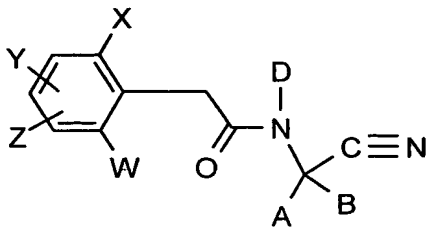


(XXVI)

in which

A, B, D, W, X, Y and Z are as defined above.

17. Compounds of the formula (XXX)

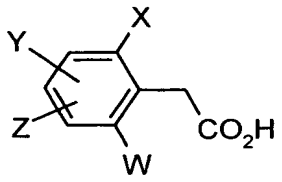


(XXX)

in which

A, B, D, W, X, Y and Z are as defined above.

18. Compounds of the formula (XXVIII)

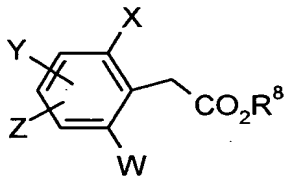


(XXVIII)

in which

W, X ,Y and Z are as defined above.

19. Compounds of the formula (XXXII)

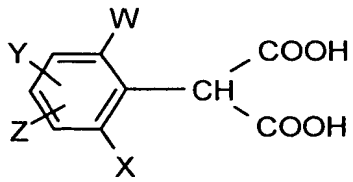


(XXXII)

in which

W, X, Y, Z and R^8 are as defined above.

20. Compounds of the formula (XXXIV)

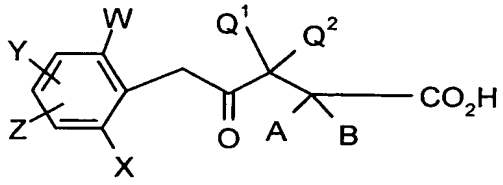


(XXXIV)

in which

W, X, Y and Z are as defined above.

21. Compounds of the formula (XXXV)

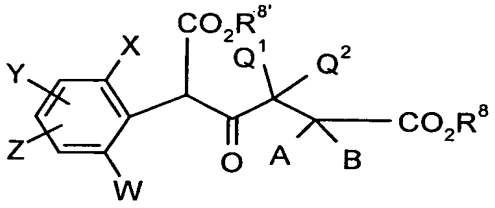


(XXXV)

in which

A, B, Q^1, Q^2, W, X, Y and Z are as defined above.

22. Compounds of the formula (XXXVI)



(XXXVI)

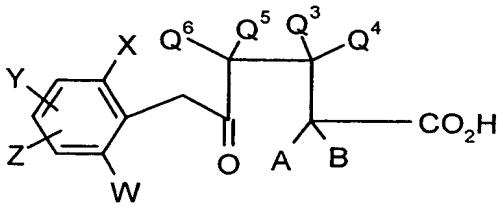
in which

A, B, Q^1, Q^2, W, X, Y and Z are as defined above

and

R^8 and $R^{8'}$ represent alkyl.

23. Compounds of the formula (XXXIX)

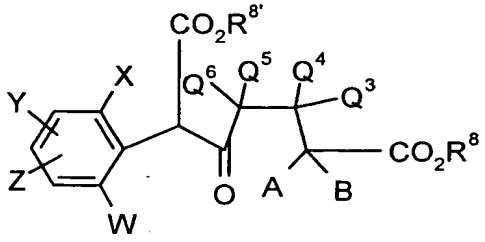


(XXXIX)

in which

A, B, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above.

24. Compounds of the formula (XL)



(XL)

in which

A, B, Q^3, Q^4, Q^5, Q^6, W, X, Y and Z are as defined above

and

R^8 and $R^{8'}$ represent alkyl.

25. Pesticides and/or herbicides and/or fungicides, characterized in that they comprise at least one compound of the formula (I) according to Claim 1.

26. Method for controlling animal pests and/or unwanted vegetation and/or fungi, characterized in that compounds of the formula (I) according to Claim 1 are allowed to act on pests and/or their habitat.

27. Use of compounds of the formula (I) according to Claim 1 for controlling animal pests and/or unwanted vegetation and/or fungi.

28. Process for preparing pesticides and/or herbicides and/or fungicides, characterized in that compounds of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.

29. Use of compounds of the formula (I) according to Claim 1 for preparing pesticides and/or herbicides and/or fungicides.

30. Compositions, comprising an effective amount of an active compound combination comprising, as components,

(a') at least one substituted, cyclic ketoenol of the formula (I), in which CKE, W, X, Y and Z are as defined in Claim 1

and

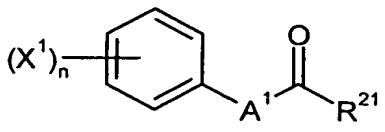
(b') at least one compound which improves crop plant tolerance and which is selected from the following group of compounds:

4-dichloroacetyl-1-oxa-4-aza-spiro[4.5]-decane (AD-67, MON-4660), 1-dichloroacetyl-hexahydro-3,3,8a-trimethylpyrrolo[1,2-a]-pyrimidin-6(2H)-one (dicyclonon, BAS-145138), 4-dichloroacetyl-3,4-dihydro-3-methyl-2H-1,4-benzoxazine (benoxacor), 1-methyl-hexyl 5-chloro-quinolin-8-oxy-acetate (cloquintocet-mexyl - cf. also related compounds in EP-A-86750, EP-A-94349, EP-A-191736, EP-A-492366), 3-(2-chloro-benzyl)-1-(1-methyl-1-phenyl-ethyl)-urea (cumyluron), α-(cyanomethoximino)-phenylacetonitrile (cyometrinil), 2,4-dichloro-phenoxyacetic acid (2,4-D), 4-(2,4-dichloro-phenoxy)-butyric acid (2,4-DB), 1-(1-methyl-1-phenyl-ethyl)-3-(4-methyl-phenyl)-urea (daimuron, dymron), 3,6-dichloro-2-methoxy-benzoic acid (dicamba), S-1-methyl-1-phenyl-ethyl piperidine-1-thiocarboxylate (dimepiperate), 2,2-dichloro-N-(2-oxo-2-(2-propenylamino)-ethyl)-N-(2-propenyl)-acetamide (DKA-24), 2,2-dichloro-N,N-di-2-propenyl-acetamide (dichlormid), 4,6-dichloro-2-phenyl-pyrimidine (fenclorim), ethyl 1-(2,4-dichloro-phenyl)-5-trichloromethyl-1H-1,2,4-triazole-3-carboxylate (fenchlorazole-ethyl - cf. also related compounds in EP-A-174562 and EP-A-346620), phenylmethyl 2-chloro-4-trifluoromethyl-thiazole-5-carboxylate (flurazole), 4-chloro-N-(1,3-dioxolan-2-yl-methoxy)-α-trifluoro-acetophenone oxime (fluxofenim), 3-dichloroacetyl-5-(2-furanyl)-2,2-dimethyl-oxazolidine (furilazole, MON-13900), ethyl 4,5-dihydro-5,5-diphenyl-3-isoxazolecarboxylate (isoxadifen-ethyl – cf. also related compounds in WO-A-95/07897), 1-(ethoxycarbonyl)-ethyl-3,6-dichloro-2-methoxybenzoate (lactidichlor), (4-chloro-o-tolyloxy)-acetic acid (MCPA), 2-(4-chloro-o-tolyloxy)-propionic acid (mecoprop), diethyl 1-(2,4-dichloro-phenyl)-4,5-dihydro-5-methyl-1H-pyrazole-3,5-dicarboxylate (mefenpyr-diethyl - cf. also related compounds in WO-A-91/07874), 2-dichloromethyl-2-methyl-1,3-dioxolane (MG-191), 2-propenyl-1-oxa-4-azaspiro[4.5]decane 4-carbodithioate (MG-838), 1,8-naphthalic anhydride, α-(1,3-dioxolan-2-yl-methoximino)-phenylacetonitrile (oxabetrinil), 2,2-dichloro-N-(1,3-dioxolan-2-yl-methyl)-N-(2-propenyl)-

acetamide (PPG-1292), 3-dichloroacetyl-2,2-dimethyl-oxazolidine (R-28725), 3-dichloroacetyl-2,2,5-trimethyl-oxazolidine (R-29148), 4-(4-chloro-o-tolyl)-butyric acid, 4-(4-chloro-phenoxy)-butyric acid, diphenyl-methoxyacetic acid, methyl diphenylmethoxyacetate, ethyl diphenyl-methoxyacetate, methyl 1-(2-chloro-phenyl)-5-phenyl-1H-pyrazole-3-carboxylate, ethyl 1-(2,4-dichloro-phenyl)-5-methyl-1H-pyrazole-3-carboxylate, ethyl 1-(2,4-dichloro-phenyl)-5-isopropyl-1H-pyrazole-3-carboxylate, ethyl 1-(2,4-dichloro-phenyl)-5-(1,1-dimethyl-ethyl)-1H-pyrazole-3-carboxylate, ethyl 1-(2,4-dichloro-phenyl)-5-phenyl-1H-pyrazole-3-carboxylate (cf. also related compounds in EP-A-269806 and EP-A-333131), ethyl 5-(2,4-dichloro-benzyl)-2-isoxazoline-3-carboxylate, ethyl 5-phenyl-2-isoxazoline-3-carboxylate, ethyl 5-(4-fluoro-phenyl)-5-phenyl-2-isoxazoline-3-carboxylate (cf. also related compounds in WO-A-91/08202), 1,3-dimethyl-but-1-yl 5-chloro-quinolin-8-oxy-acetate, 4-allyloxy-butyl 5-chloro-quinolin-8-oxy-acetate, 1-allyloxy-prop-2-yl 5-chloro-quinolin-8-oxy-acetate, methyl 5-chloro-quinoxalin-8-oxy-acetate, ethyl 5-chloro-quinolin-8-oxy-acetate, allyl 5-chloro-quinoxalin-8-oxy-acetate, 2-oxo-prop-1-yl 5-chloro-quinolin-8-oxy-acetate, diethyl 5-chloro-quinolin-8-oxy-malonate, diallyl 5-chloro-quinoxalin-8-oxy-malonate, diethyl 5-chloro-quinolin-8-oxy-malonate (cf. also related compounds in EP-A-582198), 4-carboxy-chroman-4-yl-acetic acid (AC-304415, cf. EP-A-613618), 4-chloro-phenoxy-acetic acid, 3,3'-dimethyl-4-methoxy-benzophenone, 1-bromo-4-chloromethylsulphonyl-benzene, 1-[4-(N-2-methoxybenzoylsulphamoyl)-phenyl]-3-methyl-urea (alias N-(2-methoxy-benzoyl)-4-[(methylamino-carbonyl)-amino]-benzenesulphonamide), 1-[4-(N-2-methoxybenzoylsulphamoyl)-phenyl]-3,3-dimethyl-urea, 1-[4-(N-4,5-dimethylbenzoylsulphamoyl)-phenyl]-3-methyl-urea, 1-[4-(N-naphthyl-sulphamoyl)-phenyl]-3,3-dimethyl-urea, N-(2-methoxy-5-methyl-benzoyl)-4-(cyclopropylaminocarbonyl)-benzenesulphonamide,

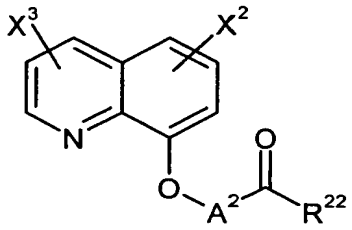
and/or one of the following compounds (defined by general formulae)

of the general formula (IIa)



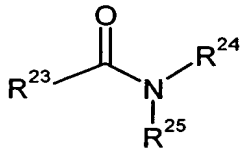
(IIa)

or of the general formula (IIb)



(IIb)

or of the formula (IIc)

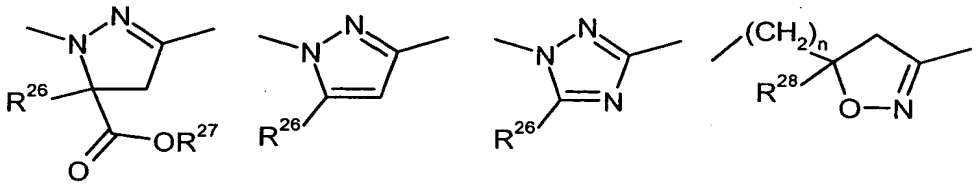


(IIc)

where

n represents a number of between 0 and 5,

A^1 represents one of the divalent heterocyclic groups outlined hereinbelow,



n represents a number of between 0 and 5,

A^2 represents alkanediyl having 1 or 2 carbon atoms which is optionally substituted by C_1-C_4-alkyl and/or C_1-C_4-alkoxy-carbonyl,

R^{21} represents hydroxyl, mercapto, amino, C_1-C_6-alkoxy, C_1-C_6-alkylthio, C_1-C_6-alkylamino or di-(C_1-C_4-alkyl)amino,

R^{22} represents hydroxyl, mercapto, amino, C_1-C_6-alkoxy, C_1-C_6-alkylthio, C_1-C_6-alkylamino or di-(C_1-C_4-alkyl)amino,

R^{23} represents C_1-C_4-alkyl which is optionally substituted in each case by fluorine, chlorine and/or bromine,

R^{24} represents hydrogen, or represents C_1-C_6-alkyl, C_2-C_6-alkenyl or C_2-C_6-alkynyl, C_1-C_4-alkoxy-C_1-C_4-alkyl, dioxolanyl-C_1-C_4-alkyl, furyl, furyl-C_1-C_4-alkyl, thienyl, thiazolyl, piperidinyl, each of which is optionally substituted by fluorine, chlorine and/or bromine, or represents phenyl which is optionally substituted by fluorine, chlorine and/or bromine or C_1-C_4-alkyl,

R^{25} represents hydrogen, or represents C_1-C_6-alkyl, C_2-C_6-alkenyl or C_2-C_6-alkynyl, C_1-C_4-alkoxy-C_1-C_4-alkyl, dioxolanyl-C_1-C_4-alkyl, furyl, furyl-C_1-C_4-alkyl, thienyl, thiazolyl, piperidinyl, each of which is optionally substituted by fluorine, chlorine and/or bromine, or represents phenyl which is optionally substituted by fluorine, chlorine and/or bromine or C_1-C_4-alkyl, or together with R^{24} represents C_3-C_6-alkanediyl or C_2-C_5-oxaalkanediyl, each of which is optionally substituted by C_1-C_4-alkyl, phenyl, furyl, a fused benzene ring or by two substituents which, together with the C atom to which they are bonded, form a 5- or 6-membered carbocycle,

R^{26} represents hydrogen, cyano, halogen, or represents C_1-C_4-alkyl, C_3-C_6-cycloalkyl or phenyl, each of which is optionally substituted by fluorine, chlorine and/or bromine,

R^{27} represents hydrogen, or represents C_1-C_6-alkyl, C_3-C_6-cycloalkyl or tri(C_1-C_4-alkyl)silyl, optionally substituted by hydroxyl, cyano, halogen or C_1-C_4-alkoxy,

R^{28} represents hydrogen, cyano, halogen, or represents C_1-C_4-alkyl, C_3-C_6-cycloalkyl or phenyl, each of which is optionally substituted by fluorine, chlorine and/or bromine,

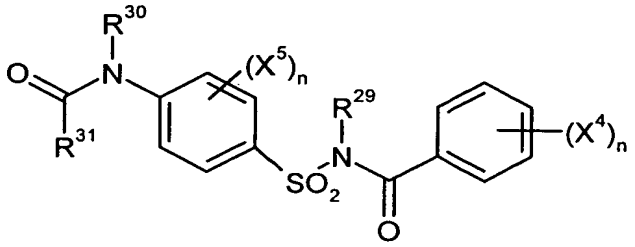
X^1 represents nitro, cyano, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy,

X^2 represents hydrogen, cyano, nitro, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy,

X^3 represents hydrogen, cyano, nitro, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy,

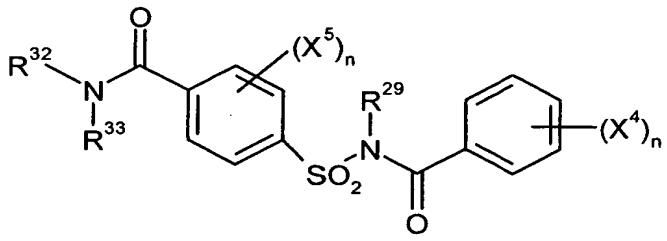
and/or the following compounds (defined by general formulae)

of the general formula (IId)



(IId)

or of the general formula (IIe)



(IIe)

where

n represents a number of between 0 and 5,

R^{29} represents hydrogen or C_1-C_4-alkyl,

R^{30} represents hydrogen or C_1-C_4-alkyl,

R^{31} represents hydrogen, or represents C_1-C_6-alkyl, C_1-C_6-alkoxy, C_1-C_6-alkylthio, C_1-C_6-alkylamino or di-(C_1-C_4-alkyl)amino, each of which is optionally substituted by cyano, halogen or C_1-C_4-alkoxy, or represents C_3-C_6-cycloalkyl, C_3-C_6-cycloalkyloxy, C_3-C_6-cycloalkylthio or C_3-C_6-cycloalkylamino, each of which is optionally substituted by cyano, halogen or C_1-C_4-alkyl,

R^{32} represents hydrogen, or represents C_1-C_6-alkyl which is optionally substituted by cyano, hydroxyl, halogen or C_1-C_4-alkoxy, or represents C_3-C_6-alkenyl or C_3-C_6-alkynyl, each of which is optionally substituted by cyano or halogen, or represents C_3-C_6-cycloalkyl which is optionally substituted by cyano, halogen or C_1-C_4-alkyl,

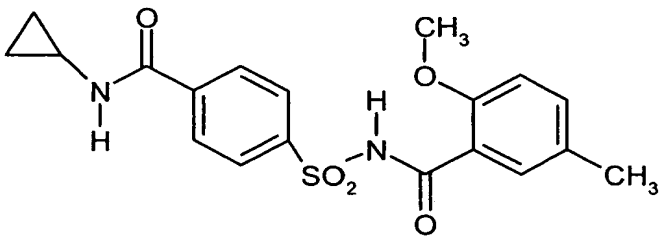
R^{33} represents hydrogen, or represents C_1-C_6-alkyl which is optionally substituted by cyano, hydroxyl, halogen or C_1-C_4-alkoxy, or represents C_3-C_6-alkenyl or C_3-C_6-alkynyl, each of which is optionally substituted by cyano or halogen, or represents C_3-C_6-cycloalkyl which is optionally substituted by cyano, halogen or C_1-C_4-alkyl, or represents phenyl which is optionally substituted by nitro, cyano, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy, or together with R^{32} represents C_2-C_6-alkanediyl or C_2-C_5-oxaalkanediyl, each of which is optionally substituted by C_1-C_4-alkyl,

X^4 represents nitro, cyano, carboxyl, carbamoyl, formyl, sulphamoyl, hydroxyl, amino, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy, and

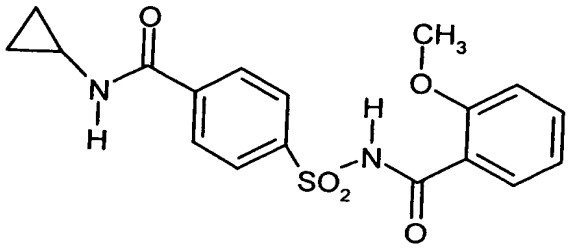
X^5 represents nitro, cyano, carboxyl, carbamoyl, formyl, sulphamoyl, hydroxyl, amino, halogen, C_1-C_4-alkyl, C_1-C_4-haloalkyl, C_1-C_4-alkoxy or C_1-C_4-haloalkoxy.

31. Composition according to Claim 30, in which the compound which improves crop plant tolerance is selected from the following group of compounds:

cloquintocet-mexyl, fenchlorazole-ethyl, isoxadifen-ethyl, mefenpyr-diethyl, furilazole, fenclorim, cumyluron, dymron or the compounds



and



32. Compositions according to Claim 30 or 31 in which the compound which improves crop plant tolerance is cloquintocet-mexyl or mefenpyr-diethyl.

33. Method for controlling unwanted vegetation, characterized in that a composition according to Claim 30 is allowed to act on the plants or their habitat.

34. Use of a composition according to Claim 30 for controlling unwanted vegetation.

35. Method for controlling unwanted vegetation, characterized in that a compound of the formula (I) according to Claim 30 and the compound which improves crop plant tolerance according to Claim 1 are allowed to act separately within a short interval on the plants or their habitat.